



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

The character of the teeth is quite constant. The fruit of *V. riparia* is ripe here in August, while that of *V. cordifolia* is not ripe till late in the fall.

V. novo-mexicana.—This is represented by specimens from Hamilton and Barber counties, in southwestern Kansas. I found it also in Montgomery county, along a railroad track, where it was apparently introduced. It is characterized by a shrubby habit and leaves of *V. riparia*, but woolly on both sides, as are the canes. The wool is more or less deciduous on the old portions. The specimens were gathered in July, at which time berries were apparently full grown, but still green. Bunches short and compact.

A LIST OF FLOWERING PLANTS AND FERNS.

[Collected in Franklin county, Kansas, during the months of April, May, September, and October, 1890-'92.]

BY W. E. CASTLE, OTTAWA, KAS.

EXPLANATION: In the following list, the nomenclature of Gray's Manual, sixth edition, has been followed.

Every plant included in the list has been seen and identified by the author, with one exception, which is noted. Dried specimens of nearly all are in the author's herbarium. In cases of doubtful identity, comparison has been made with the herbaria of Harvard University and the Missouri Botanical Garden. Acknowledgment of valuable assistance is due to Mr. Herbert L. Jones, of Cambridge, Mass., Dr. Wm. Trelease, of St. Louis, and others.

As many of the plants were collected when in fruit or before blossoming, the time of collection has not been thought of sufficient value for insertion; for the benefit, however, of future botanical students in the vicinity of Ottawa, the place of collection has been indicated with considerable exactness. The letters, A to K, refer to the following localities:

A, the college farm, just outside the corporate limits of Ottawa, on the south, and thence along the south bank of Rock creek to the Marais des Cygnes river; soil stony, untimbered.

B, more or less wooded banks of Rock creek, on the college farm and between the college farm and the river.

C, shaded banks of the Marais des Cygnes, between Ottawa and the mouth of Rock creek.

D, swampy ground on the north bank of Rock creek near its mouth.

E, on or among the sandstone hills about three miles southwest of Ottawa.

F, alluvial soil, about one mile west of Main street, Ottawa.

G, Forest Park, on the north bank of the Marais des Cygnes, in the city of Ottawa; open woods.

H, banks of Skunk run, city of Ottawa.

I, Missouri Pacific railroad track, between Ottawa and Rock creek.

K, streets of Ottawa.

The underlying rock is everywhere limestone, except at station E, where it is sandstone.

I.—RANUNCULACEÆ.

1. *Clematis* L.
1. *C. pitcheri* T. & G. B
2. *Anemone* Tourn.
2. *A. caroliniana* Walt. A
3. *A. virginiana* L.
3. *Thalictrum* Tourn.
4. *T. purpurascens* L. B
4. *Myosurus* Dill.
5. *M. minimus* L. A
5. *Ranunculus* Tourn.
6. *R. abortivus* L. G
7. *R. recurvatus* Poir. G
6. *Isopyrum* L.
8. *I. biternatum* T. & G. C and G
7. *Aquilegia* Tourn.
9. *A. canadensis* L. B
8. *Delphinium* Tourn.
10. *D. tricorne* Mx. B
11. *D. azureum* Mx. A

II.—MENISPERMACEÆ.

9. *Menispermum* L.
12. *M. canadense* L. B

III.—BERBERIDACEÆ.

10. *Podophyllum* L.
13. *P. peltatum* L. B

IV.—PAPAVERACEÆ.

11. *Sanguinaria* Dill.
14. *S. canadensis* L., rare. B

V.—FUMIARIACEÆ.

12. *Discentra* Borkh.
15. *D. cucullaria*, DC. B
13. *Corydalis* Vent.
16. *C. flavula* DC. B
17. *C. micrantha* Gr. A
18. *C. aurea* Willd., var. *occidentalis* Engl. A

VI.—CRUCIFERÆ.

14. *Dentaria* Tourn.
19. *D. laciniata* Muhl. B
15. *Cardamine* Tourn.
20. *C. hirsuta* L. E
16. *Arabis* L.
21. *A. canadensis* L. A
22. *A. dentata* T. & G. C
17. *Draba* Dill.
23. *D. caroliniana* Walt., var. *micrantha* Gr. A
24. *D. cuneifolia* Nutt. A

18. *Nasturtium* R. Br.

25. *N. sessiliflorum* Nutt. K
19. *Sisymbrium* Tourn.
26. *S. canescens* Nutt. B
27. *S. officinale* Scop. K
20. *Thelypodium* Endl.
28. *T. pinnatifidum* Watson. G
21. *Brassica* Tourn.
29. *B. sinapistrum* Boiss., in grain fields becoming common.
22. *Capsella* Medic.
30. *C. bursa-pastoris* Moench (found everywhere).
23. *Lepidium* Tourn.
31. *L. virginicum* L. Roadsides
32. *L. intermedium* Gr. Roadsides

VII.—VIOLACEÆ.

24. *Viola* Tourn.
33. *V. pedata* L. E
34. *V. pedatifida* G. Don. A and B
35. *V. palmata* L., var. *cucullata* Gray
..... Everywhere
36. *V. pubescens* Ait. B and C
37. *V. tricolor* L., var. *arvensis* (?)... A

VIII.—CAROPHYLLACEÆ.

25. *Saponaria* L.
38. *S. officinalis* L. K
26. *Silene* L.
39. *S. antirrhina* L. A
27. *Stellaria* L.
40. *S. media* Smith, in garden at greenhouse, May, 1892.
28. *Cerastium* L.
41. *C. nutans* Raf., common. A
42. *C. arvense* L., rare.

IX.—PORTULACACEÆ.

29. *Portulaca* Tourn.
43. *P. oleracea* L., rare. Gardens
44. *P. pilosa* L. A
30. *Claytonia* Gronov.
45. *C. virginica* L. A and C

X.—HYPERICACEÆ.

31. *Hypericum* Tourn.
46. *H. densiflorum* Pursh. D

XI.—MALVACEÆ.

32. *Callirrhoe* Nutt.
47. *C. alcaëoides* Gr. A
33. *Malvastrum* Gr.
48. *M. angustum* Gr. A

34. *Sida* L.
 49. *S. spinosa* L. A
 35. *Abutilon* Tourn.
 50. *A. avicennæ* Gaertn.
 36. *Hibiscus* L.
 51. *H. trionum* L. A

XII.—TILIACEÆ.

37. *Tilia* Tourn.
 52. *T. americana* L. Woods

XIII.—LINACEÆ.

38. *Linum* Tourn.
 53. *L. sulcatum* Riddell. A
 54. *L. usitatissimum* L. I

XIV.—GERANIACEÆ.

39. *Geranium* Tourn.
 55. *G. carolinianum* L. A
 40. *Oxalis* L.
 56. *O. violacea* L. (a variety occurs with white petals) A
 57. *O. corniculata* L. A
 58. *O. corniculata*, var. *stricta* Sav., blossoms later than the species A
 41. *Impatiens* L.
 59. *I. pallida* Nutt. C

XV.—CELASTRACEÆ.

42. *Celastrus* L.
 60. *C. scandens* L. B
 43. *Euonymus* Tourn.
 61. *E. atropurpureus* Jacq. C

XVI.—RHAMNACEÆ.

44. *Rhamnus* Tourn.
 62. *R. lanceolata* Pursh. C
 45. *Ceanothus* L.
 63. *C. americanus* L. A

XVII.—VITACEÆ.

46. *Vitis* Tourn.
 64. *V. cinerea* Engl. H
 65. *V. riparia* Mx. B
 47. *Ampelopsis* Mx.
 66. *A. quinquefolia* Mx. B and C

XVIII.—SAPINDACEÆ.

48. *Æsculus* L.
 67. *Æ. arguta* Buckley. B
 49. *Acer* Tourn.
 68. *A. dasycarpum* Ehrh. C
 50. *Negundo* Moench.
 69. *N. aceroides* Moench. G
 51. *Staphylea* L.
 70. *S. trifolia* L. B and C

XIX.—ANACARDIACEÆ.

52. *Rhus* L.
 71. *R. glabra* L. A
 72. *R. toxicodendron* L. B and C
 73. *R. canadensis* Marsh. A

XX.—POLYGALACEÆ.

53. *Polygala* Tourn.
 74. *P. sanguinea* L. A
 75. *P. verticillata* L. A

XXI.—LEGUMINOSÆ.

54. *Baptisia* Vent.
 76. *B. leucophæa* Nutt. A
 77. *B. australis* R. Br.
 55. *Trifolium* Tourn.
 78. *T. pratense* L. Everywhere
 79. *T. repens* L. Everywhere
 56. *Melilotus* Tourn.
 80. *M. officinalis* Willd. K
 81. *M. alba* Lam. K
 57. *Medicago* Tourn.
 82. *M. sativa* L., orchard. A
 58. *Hosackia* Douglas.
 83. *H. Purshiana* Benth. A
 59. *Psoralea* L.
 84. *P. tenuiflora* Pursh. A
 85. *P. esculenta* Pursh. A
 60. *Amorpha* L.
 86. *A. canescens* Nutt. A
 87. *A. fruticosa* L. A
 61. *Dalea* L.
 88. *D. alopecuroides* Willd. A
 62. *Petalostemon* Mx.
 89. *P. multiflorus* Nutt. A
 63. *Robinia* L.
 90. *R. pseudacacia* L. (escaping from cultivation).
 64. *Astragalus* Tourn.
 91. *A. caryocarpus* Ker. A
 92. *A. canadensis* L. F
 65. *Desmodium* Desv.
 93. *D. acuminatum* DC. B
 94. *D. dillenii* Darlingt. B
 66. *Lespedeza* Mx.
 95. *L. violacea* Pers. A
 96. *L. capitata* Mx. A
 97. *L. striata* Hook & Arn. I
 67. *Vicia* Tourn.
 98. *V. americana* Muhl. D
 68. *Strophostyles* Ell.
 99. *S. angulosa* Ell. I

69. *Amphicarpæa* Ell.
 100. *A. monoica* Nutt..... B
 101. *A. pitcheri* T. & G.
 70. *Cercis* L.
 102. *C. canadensis* L..... B
 71. *Cassia* Tourn.
 103. *C. marylandica* L..... H
 104. *C. chamæcrista* L..... A
 72. *Gymnocladus* Lam.
 105. *G. canadensis* Lam..... B and G
 73. *Gleditschia* L..
 106. *G. triacanthos* L..... B
 74. *Desmanthus* Willd.
 107. *D. brachylobus* Benth..... F
 XXII.—ROSACEÆ.
 75. *Prunus* Tourn.
 108. *P. chicensis* Mx..... B
 76. *Rubus* Tourn.
 109. *R. occidentalis* L..... B
 110. *R. villosus* Ait..... B
 111. *R. canadensis* L..... A and B
 77. *Geum* L.
 112. *G. album* Gmelin..... B
 113. *G. vernum* T. & G..... Thicket F
 78. *Fragaria* Tourn.
 114. *F. virginiana* Mill., var. *illinoensis*
 Gr..... A
 79. *Potentilla* L.
 115. *P. norvegica* L..... K
 116. *P. canadensis* L..... A and B
 80. *Agrimonia* Tourn.
 117. *A. eupatoria* L.
 118. *A. parviflora* Ait..... Thicket F
 81. *Rosa* Tourn.
 119. *R. setigera* Mx..... B
 120. *R. arkansana* Porter..... A
 82. *Pyrus* L.
 121. *P. coronaria* L..... B
 83. *Cratægus* L.
 122. *C. coccinea* L..... B
 XXIII.—SAXIFRAGACEÆ.
 84. *Ribes* L.
 123. *R. gracile* Mx..... B
 XXIV.—CRASSULACEÆ.
 85. *Penthorum* Gronov.
 124. *P. sedoides* L..... E
 86. *Sedum* Tourn.
 125. *S. pulchellum* Mx..... A

- XXV.—LYTHRACEÆ.
 87. *Lythrum* L.
 126. *L. alatum* Pursh..... A and D
 XXVI.—ONAGRACEÆ.
 88. *Jussiaea* L.
 127. *J. repens* L..... I
 89. *Ludwigia* L.
 128. *L. alternifolia* L..... D
 129. *L. polycarpa* Short & Peter.... D
 130. *L. palustris* Ell..... D
 90. *Oenothera* L.
 131. *O. albicaulis* Nutt..... A and B
 132. *O. missouriensis* Sims..... I
 91. *Gaura* L.
 133. *G. biennis* L..... A
 92. *Stenosiphon* Spach.
 134. *S. virgatus* Spach..... A
 XXVII.—LOASACEÆ.
 93. *Mentzelia* Plumier.
 135. *M. oligosperma* Nutt..... A
 XXVIII.—CUCURBITACEÆ.
 94. *Sicyos* L.
 136. *S. angulatus* L..... C
 95. *Echinocystis* T. & G.
 137. *E. lobata* T. & G..... C
 XXIX.—CACTACEÆ.
 96. *Opuntia* Tourn.
 138. *O. missouriensis* DC..... A
 XXX.—UMBELLIFERÆ.
 97. *Pastinaca* L.
 139. *P. sativa* L..... Common
 98. *Polytenia* DC.
 140. *P. nuttallii* DC..... A
 99. *Peucedanum* L.
 141. *P. fœniculaceum* Nutt..... A
 100. *Sium* Tourn.
 142. *S. cicutæfolium* Mx..... D
 101. *Zizia* Koch.
 143. *Z. aurea* Koch..... B and F
 102. *Chærophyllyum* L.
 144. *C. procumbens* Crantz.... B and G
 103. *Osmorrhiza* Raf.
 145. *O. brevistylis* DC..... C
 146. *O. longistylis* DC..... C
 104. *Eryngium* Tourn.
 147. *E. yuccæfolium* Mx..... A
 105. *Sanicula* Tourn.
 148. *S. marylandica* L..... B

149. *S. marylandica*, var. *canadensis*
Torr. B
- XXXI.—CORNACEÆ.
106. *Cornus* Tourn.
150. *C. sericea* L. B
- XXXII.—CAPRIFOLIACEÆ.
107. *Sambucus* Tourn.
151. *S. canadensis* L. A, B, and C
108. *Triosteum* L.
152. *T. perfoliatum* L. B
109. *Symphoricarpos* Dill.
153. *S. vulgaris* Mx. B and C
- XXXIII.—RUBIACEÆ.
110. *Houstonia* L.
154. *H. minima* Beck. A
111. *Cephalanthus* L.
155. *C. occidentalis* L.
112. *Diodia* Gronov.
156. *D. teres* Walt. D
113. *Galium* L.
157. *G. aparine* L. B
158. *G. circæzans* Mx. B
159. *G. trifidum* L. D
160. *G. triflorum* Mx. B and F
- XXXIV.—VALERIANACEÆ.
114. *Valerianella* Tourn.
161. *V. stenocarpa* Krok. B
- XXXV.—COMPOSITEÆ.
115. *Vernonia* Schreb.
162. *V. fasciculata* Mx. D
163. *V. baldwinii* Torr. F
116. *Eupatorium* Tourn.
164. *E. purpureum* L. B
165. *E. altissimum* L. A
166. *E. ageratoides* L. B
117. *Kuhnia* L.
167. *K. eupatorioides* L. A
118. *Liatris* Schreb.
168. *L. squarrosa* Willd. A
169. *L. punctata* Hook. A
170. *L. pycnostachya* Mx. A
119. *Amphiachyris* Nutt.
171. *A. dracunculoides* Nutt. A
120. *Solidago* L.
172. *S. bicolor* L., var. *concolor* T. & G., A
173. *S. ulmifolia* Muhl. B
174. *S. missouriensis* Nutt. A
175. *S. serotina* Ait. A
176. *S. canadensis* L. A
177. *S. rigida* L. A
178. *S. tenuifolia* Pursh. A
121. *Boltonia* L'Her.
179. *B. latisquama* Gr. D
122. *Aster* L.
180. *A. drummondii* Lindl. A
181. *A. vimineus* Lam. K
182. *A. diffusus* Ait. K
183. *A. salicifolius* Ait. A
123. *Erigeron* L.
184. *E. canadensis* L. A
185. *E. annuus* Pers. A
186. *E. strigosus* Muhl. A
187. *E. philadelphicus* L. A
124. *Antennaria* Gaertn.
188. *A. plantaginifolia* Hook. A
125. *Anaphalis* DC.
189. *A. margaritacea* Benth. & Hook. . A
126. *Silphium* L.
190. *S. laciniatum* L. A
191. *S. integrifolium* Mx. A
192. *S. perfoliatum* L. H
127. *Iva* L.
193. *I. ciliata* Willd. A
128. *Ambrosia* Tourn.
194. *A. bidentata* Mx. A
195. *A. trifida* L. B and C
196. *A. trifida*, var. *integrifolia* Mx. . . A
197. *A. artemisiæfolia* L. Everywhere
198. *A. psilostachya* DC. A
129. *Xanthium* Tourn.
199. *X. canadense* Mill. K
130. *Eclipta* L.
200. *E. alba* Hassk. B
131. *Heliospis* Pers.
201. *H. scabra* Dunal. A
132. *Echinacea* Moench.
202. *E. angustifolia* DC. A
133. *Rudbeckia* L.
203. *R. laciniata* L. A
204. *R. triloba* L. A and B
205. *R. subtomentosa* Pursh. D
206. *R. speciosa* Wenderoth. A
134. *Lepachys* Raf.
207. *L. columnaris* T. & G. A
135. *Helianthus* L.
208. *H. annuus* L. A
209. *H. orgyalis* DC. A
210. *H. rigidus* Desf. A

211. *H. lætiflorus* Pers. A
 212. *H. mollis* Lam. A
 213. *H. grosse-serratus* Martens. I
 214. *H. strumosus* L., var. *mollis* T. & G., A
 136. *Actinomeris* Nutt.
 215. *A. squarrosa* Nutt. B
 137. *Coreopsis* L.
 217. *C. involuerata* Nutt. H and K
 138. *Bidens* L.
 218. *B. frondosa* L. B
 219. *B. connata* Muhl. B
 220. *B. bipinnata* L. B
 139. *Helenium* L.
 221. *H. autumnale* L.
 140. *Dysodia* Cav.
 222. *D. chrysanthemoides* Lag. K
 141. *Anthemis* L.
 223. *A. cotula* DC. Not common, K
 142. *Achillea* L.
 224. *A. millefolium* L. A
 143. *Tanacetum* L.
 225. *T. vulgare* L., escaping from
 yards. K
 144. *Artemisia* L.
 226. *A. ludoviciana* Nutt. A
 145. *Senecio* Tourn.
 227. *S. aureus* L. D
 146. *Cacalia* L.
 228. *C. atriplicifolia* L. B
 229. *C. tuberosa* Nutt. A
 147. *Erechtites* Raf.
 230. *E. hieracifolia* Raf. B
 148. *Arctium* L.
 231. *A. lappa* L. Very common
 149. *Cnicus* Tourn.
 232. *C. altissimus* Willd. I
 233. *C. arvensis* Hoffm. K
 150. *Cichorium* Tourn.
 234. *C. intybus* L. Rare
 151. *Prenanthes* Vaill.
 235. *P. aspera* Mx. A
 152. *Troximon* Nutt.
 236. *T. cuspidatum* Pursh. A
 153. *Taraxacum* Haller.
 237. *T. officinale* Weber. Everywhere
 154. *Lactuca* Tourn.
 238. *L. canadensis* L. A
 239. *L. hirsuta* Muhl.
 155. *Sonchus* L.
 240. *S. asper* Vill. K

XXXVI.—LOBELIACEÆ.

156. *Lobelia* L.

241. *L. cardinalis* L. B
 242. *L. syphilitica* L. B

XXXVII.—CAMPANULACEÆ.

157. *Specularia* Heister.

243. *S. perfoliata* A. DC. A
 244. *S. leptocarpa* Gr. A
 158. *Campanula* Tourn.
 245. *C. americana* L. B

XXXVIII.—PRIMULACEÆ.

159. *Androsace* Tourn.

246. *A. occidentalis* Pursh. A

XXXIX.—OLEACEÆ.

160. *Fraxinus* Tourn.

247. *F. viridis* Mx. f. B

XL.—APOCYNACEÆ.

161. *Apocynum* Tourn.

248. *A. cannabinum* L.

XLI.—ASCLEPIADACEÆ.

162. *Asclepiodora* Gr.

249. *A. viridis* Gr. A
 163. *Asclepias* L.
 250. *A. tuberosa* L. I
 251. *A. incarnata* L. F
 252. *A. sullivantii* Engl. K
 253. *A. verticillata* L. K

XLII.—GENTIANACEÆ.

164. *Gentiana* Tourn.

254. *G. puberula* Mx. A

XLIII.—POLEMONIACEÆ.

165. *Phlox* L.

255. *P. pilosa* L. D and I
 256. *P. divaricata* L. B, C, and G

XLIV.—HYDROPHYLLACEÆ.

166. *Hydrophyllum* Tourn.

257. *H. virginicum* L. B and G
 167. *Ellisia* L.
 258. *E. nyctelea* L. K

XLV.—BORAGINACEÆ.

168. *Cynoglossum* Tourn.

259. *C. officinale* L.
 169. *Echinosperrum* Lehm.
 260. *E. virginicum* Lehm. C
 170. *Myosotis* Dill.
 261. *M. verna* Nutt. A

171. *Lithospermum* Tourn.
 262. *L. officinale* L. Woods along stream,
 eight miles southeast of Ottawa.
 263. *L. canescens* Lehm. A
 264. *L. angustifolia* Mx. A

172. *Onosmodium* Mx.

265. *O. carolinianum* DC., var. *molle*
 Gr. A

173. *Lycopsis* L.

266. *L. arvensis* L. Eight miles south-
 east of Ottawa.

XLVI.—CONVOLVULACEÆ.

174. *Ipomœa* L.

267. *I. hederacea* Jacq. Spontaneous in
 gardens, Ottawa.
 268. *I. purpurea* Lam. Spontaneous in
 gardens, Ottawa.
 269. *I. lacunosa* L. Spontaneous in gar-
 dens, Ottawa.

175. *Convolvulus* Tourn.

270. *C. sepium* L. A

176. *Cuscuta* Tourn.

271. *C. chlorocarpa* Engl. (parasitic on
Polygonum hydropiperoides).. B
 272. *C. cuspidata* Engl. (parasitic on
Ambrosia artemisiæfolia and *Ar-*
temisia trifida)..... A
 273. *C. glomerata* Choisy (parasitic on
Helianthus)..... I

XLVII.—SOLANACEÆ.

177. *Solanum* Tourn.

274. *S. nigrum* L. A and B
 275. *S. carolinense* L. K
 276. *S. rostratum* Dunal. K

178. *Physalis* L.

277. *P. pubescens* L. (differs greatly from
 the eastern form). A, and in clear-
 ing B.
 278. *P. virginiana* Mill., var. *ambigua*
 Gr. C
 279. *P. lanceolata* Mx. A
 280. *P. lanceolata* Mx., var. *lævigata* Gr.
 (more angulate toothed than spe-
 cies—almost glabrous..... A
 281. *P. lanceolata* Mx., var. *hirta* Gr.

179. *Datura* L.

282. *D. stramonium* L. K
 283. *D. tatula* L. K

XLVIII.—SCROPHULARIACEÆ.

180. *Verbascum* L.

284. *V. thapsus* L. A

181. *Scrophularia* Tourn.

285. *S. nodosa* L., var. *marilandica* Gr.. B

182. *Pentstemon* Mitchell.

286. *P. lævigatus* Solander. A

287. *P. cobæa* Nutt. A

183. *Mimulus* L.

288. *M. alatus* Ait. B

184. *Conobea* Aublet.

289. *C. multifida* Benth. B

185. *Gratiola* L.

290. *G. virginiana* L.... River banks, G

186. *Veronica* L.

291. *V. peregrina* L. A

187. *Seymeria* Pursh.

292. *S. macrophylla* Nutt. B

188. *Gerardia* L.

293. *G. auriculata* Mx. A

294. *G. purpurea* L. A

295. *G. tenuifolia* Vahl. A

189. *Pedicularis* Tourn.

296. *P. canadensis* L. B

XLIX.—ACANTHACEÆ.

190. *Ruellia* Plumier.

297. *R. ciliosa* Pursh. K

298. *R. strepens* L. B

L.—VERBENACEÆ.

191. *Verbena* Tourn.

299. *V. urticæfolia* L. A

300. *V. angustifolia* Mx. A

301. *V. stricta* Vent. A and K

302. *V. aubletia* L. A

192. *Lippia* Houst.

303. *L. lanceolata* Mx. B

193. *Phryma* L.

304. *P. leptostachya* L. B

LI.—LABIATE.

194. *Isanthus* Mx.

305. *I. cæruleus* Mx. A

195. *Teucrium* Tourn.

306. *T. canadense* L. K

196. *Mentha* Tourn.

307. *M. canadensis* L., var. *glabrata*
 Benth. B

197. *Lycopus* Tourn.

308. *L. virginicus* L. B

198. *Pycnanthemum* Mx.

309. *P. linifolium* Pursh. K

199. *Hedeoma* Pers.
 310. *H. drummondi* Benth. A
 200. *Salvia* L.
 311. *S. azurea* Lam., var. *grandiflora*
 Benth. K
 312. *S. lanceolata* Willd. K
 201. *Monarda* L.
 313. *M. fistulosa* L. B
 202. *Lophanthus* Benth.
 314. *L. nepetoides* Benth. B
 203. *Nepeta* L.
 315. *N. cataria* L. F
 316. *N. glechoma* Benth. K
 204. *Scutellaria* L.
 317. *S. wrightii* Gr. A
 318. *S. parvula* Mx. A
 319. *S. parvula*, var. *mollis* Gr., blossoms
 earlier than species. B
 205. *Brunella* Tourn.
 320. *B. vulgaris* L. K
 206. *Stachys* Tourn.
 321. *S. aspera* Mx., var. *glabra* Gr. B
 LII.—PLANTAGINACEÆ.
 207. *Plantago* Tourn.
 322. *P. major* L. K
 323. *P. patagonica* Jacq., var. *gnapha-*
 lioides Gr. A
 324. *P. patagonica* Jacq., var. *aristata*
 Gr. A and K
 325. *P. virginica* L. A
 LIII.—NYCTAGINACEÆ.
 208. *Oxybaphus* Vahl.
 326. *O. nyctagineus* Sweet. B
 327. *O. angustifolius* Sweet. A
 LIV.—ILLECEBRACEÆ.
 209. *Anychia* Mx.
 328. *A. dichotoma* Mx. A
 LV.—AMARANTACEÆ.
 210. *Amarantus* Tourn.
 329. *A. paniculatus* L. K
 330. *A. retroflexus* L. K
 331. *A. chlorostachys* Willd. K
 332. *A. albus* L. K
 333. *A. blitoides* Watson. K
 LVI.—CHENOPODIACEÆ.
 211. *Chenopodium* Tourn.
 334. *C. polyspermum* L. K
 335. *C. album* L. K

336. *C. ambrosioides* L., var. *anthelmin-*
 ticum Gr. K
 LVII.—PHYTOLACCACEÆ.
 212. *Phytolacca* Tourn.
 337. *P. decandra* L. A, I, and K
 LVIII.—POLYGONACEÆ.
 213. *Rumex* L.
 338. *R. crispus* L. K
 214. *Polygonum* Tourn.
 339. *P. aviculare* L. K
 340. *P. erectum* L. K
 341. *P. ramosissimum* Mx. K
 342. *P. lapathifolium* L., var. *incarna-*
 tum Watson, river bank near G
 343. *P. pennsylvanicum* L., rich soil
 everywhere.
 344. *P. muhlenbergii* Watson. D
 345. *P. hartwrightii* Gr. D
 346. *P. persicaria* L. Everywhere
 347. *P. hydropiperoides* Mx. K
 348. *P. hydropiper* L. Everywhere
 349. *P. virginianum* L. C
 350. *P. convolvulus* L. A and B
 351. *P. dumetorum* L., var. *scandens*
 Gr. C
 LIX.—SANTALACEÆ.
 215. *Comandra* Nutt.
 352. *C. pallida* A. DC. E
 LX.—EUPHORBIACEÆ.
 216. *Euphorbia* L.
 353. *E. petaloidea* Engl. A
 354. *E. serpens*, HBK. A
 355. *E. glyptosperma* Engl. A
 356. *E. maculata* L. A, I, and K
 357. *E. preslii* Guss. A, I, and K
 358. *E. corollata* L. A
 359. *E. dentata* Mx. K
 360. *E. heterophylla* L. C
 217. *Croton* L.
 361. *C. capitatus* Mx. A
 218. *Crotonopsis* Mx.
 362. *C. linearis* Mx. A
 219. *Acalypha* L.
 363. *A. virginica* L. A
 364. *A. virginica*, var. *gracilens* Muell. . I
 220. *Tragia* Plumier.
 365. *T. nepetæfolia* Cav. A

LXI.—URTICACEÆ.

221. *Ulmus* L.
 366. *U. fulva* Mx B
 367. *U. americana* L Everywhere
 222. *Celtis* Tourn.
 368. *C. occidentalis* L B
 223. *Cannabis* Tourn.
 369. *C. sativa* A
 224. *Humulus* L.
 370. *H. lupulus* L B
 225. *Maclura* Nutt.
 371. *M. aurantiaca* Nutt. (becoming
 spontaneous) A
 226. *Morus* Tourn.
 372. *M. rubra* L C
 227. *Urtica* Tourn.
 373. *U. gracilis* Ait A and B
 228. *Laportea* Gaudichaud.
 374. *L. canadensis* Gaud C
 229. *Pilea* Lindl.
 375. *P. pumila* Gr B
 230. *Parietaria* Tourn.
 376. *P. pennsylvanica* Muhl. (hedge
 rows) K

LXII.—PLATANACEÆ.

231. *Platanus* L.
 377. *P. occidentalis* L C

LXIII.—JUGLANDACEÆ.

232. *Juglans* L.
 378. *J. nigra* L G
 233. *Carya* Nutt.
 379. *C. alba* Nutt B
 380. *C. sulcata* Nutt B
 381. *C. amara* Nutt D

LXIV.—CUPULIFERÆ.

234. *Corylus* Tourn.
 382. *C. americana* Walt B
 235. *Ostrya* Micheli.
 383. *O. virginica* Willd B
 236. *Quercus* L.
 384. *Q. macrocarpa* Mx G
 385. *Q. bicolor* Willd C
 386. *Q. muhlenbergii* Engl G
 387. *Q. rubra* L G
 388. *Q. palustris* Du Roi D
 389. *Q. nigra* L B

LXV.—SALICACEÆ.

237. *Salix* Tourn.
 390. *S. nigra* Marsh C
 391. *S. longifolia* Muhl I and D

392. *S. tristis* Ait E
 238. *Populus* Tourn.

393. *P. monilifera* Ait B and C

LXVI.—ORCHIDACEÆ.

239. *Cypripedium* L.
 394. *C. parviflorum* Salisb. Woods,
 creeks, eight miles southeast of
 Ottawa.

LXVII.—IRIDACEÆ.

240. *Sisyrinchium* L.
 395. *S. angustifolium* Mill A

LXVIII.—AMARYLLIDACEÆ.

241. *Hypoxis* L.
 396. *H. erecta* L A

LXIX.—DIOSCOREACEÆ.

242. *Dioscorea* Plumier.
 397. *D. villosa* L B

LXX.—LILIACEÆ.

243. *Smilax* Tourn.
 398. *S. herbacea* L I and D
 399. *S. ecirrhata* Watson B
 400. *S. hispida* Muhl B
 244. *Allium* L.
 401. *A. stellatum* Nutt A
 402. *A. canadense* Kalm B
 245. *Nothoscordum* Kunth.
 403. *N. striatum* Kunth A
 246. *Camassia* Lindl.
 404. *C. fraseri* Torr A
 247. *Polygonatum* Tourn.
 405. *P. biflorum* Ell B
 406. *P. giganteum* Dietrich C
 248. *Asparagus* Tourn.
 407. *A. officinalis* L K
 Escaping from gardens.
 249. *Erythronium* L.
 408. *E. albidum* Nutt A, B, C, and G

LXXI.—COMMELYNACEÆ.

250. *Tradescantia* L.
 409. *T. virginica* L A and I

LXXII.—JUNCACEÆ.

251. *Juncus* Tourn.
 410. *J. tenuis* Willd A

LXXIII.—TYPHACEÆ.

252. *Typha* Tourn.
 411. *T. latifolia* L. Marsh, 1½ miles east
 of Ottawa.

LXXIV.—ARACEÆ.

253. *Arisæma* Martius.

412. *A. triphyllum* Torr.....B

413. *A. dracontium* Schott.....B

LXXV.—ALISMACEÆ.

254. *Alisma* L.

414. *A. plantago* L.....B

255. *Sagittaria* L.

415. *S. variabilis* Engl. Reported from
Wellsville.

LXXVI.—GRAMINEÆ.

256. *Spartina* Schreber.

416. *S. cynosuroides* Willd.....A

257. *Panicum* L.

417. *P. sanguinale* L.....K

418. *P. proliferum* Lam.....D

419. *P. capillare* L.....A

420. *P. virgatum* L.....A

421. *P. clandestinum* L.....B

422. *P. depauperatum* Muhl.....A

423. *P. crus-galli* L.....B

258. *Setaria* Beauv.

424. *S. glauca* Beauv.....Everywhere

425. *S. viridis* Beauv.....Everywhere

259. *Leersia* Swartz.

426. *L. virginica* Willd.....B

260. *Andropogon* Royen.

427. *A. furcatus* Muhl.....A

261. *Chrysopogon* Trin.

428. *C. nutans* Benth.....A

262. *Phalaris* L.

429. *P. arundinacea* L.

263. *Aristida* L.

430. *A. oligantha* Mx.

264. *Muhlenbergia* Schreber.

431. *M. diffusa* Schreber.

265. *Phleum* L.

432. *P. pratense* L.....Everywhere

266. *Alopecurus* L.

433. *A. geniculatus* L.....F and B

267. *Cinna* L.

434. *C. arundinacea* L.

268. *Bouteloua* Lagasca.

435. *B. oligostachya* Torr.....A

436. *B. racemosa* Lag.....A

269. *Eleusine* Gaertn.

437. *E. indica* Gaertn.....K

270. *Triodia* R. Bv.

438. *T. cuprea* Jacq.

271. *Eragrostis* Beauv.

439. *E. major* Host.....K

440. *E. pectinacea* Gr.....A and K

272. *Melica* L.

441. *M. diffusa* Pursh.

273. *Uniola* L.

442. *U. latifolia* Mx.....D

274. *Poa* L.

443. *P. compressa* L.....B

444. *P. pratensis* L.... Fields, common

275. *Bromus* L.

445. *B. secalinus* L.....Wheat fields

276. *Elymus* L.

446. *E. virginicus* L.....B

447. *E. canadensis* L.....C

LXXVII.—FILICES.

277. *Notholaena* R. Br.

448. *N. dealbata* Kunze.....B

278. *Pellaea* Link.

449. *P. atropurpurea* Link.....B

279. *Camptosorus* Link.

450. *C. rhizophyllum* Link.....B

280. *Cystopteris* Bernh.

451. *C. fragilis* Bernh.....B

LXXVIII.—OPHIOGLOSSACEÆ.

281. *Botrychium* Swartz.

452. *B. virginianum* Swartz.....B

THE RELATIONS OF THE COMPOSITE FLORA OF KANSAS.

A. S. HITCHCOCK, MANHATTAN.

The flora of Kansas is essentially that of the plains, though the Mississippi valley flora mingles to a very perceptible degree in the extreme east. In studying the relations of the Kansas flora, the order Compositæ was selected as being better suited to represent these relations than any other order, or group of orders, comprising an equal number of genera. The Compositæ are widely distributed over the whole world.